

Fig. 1

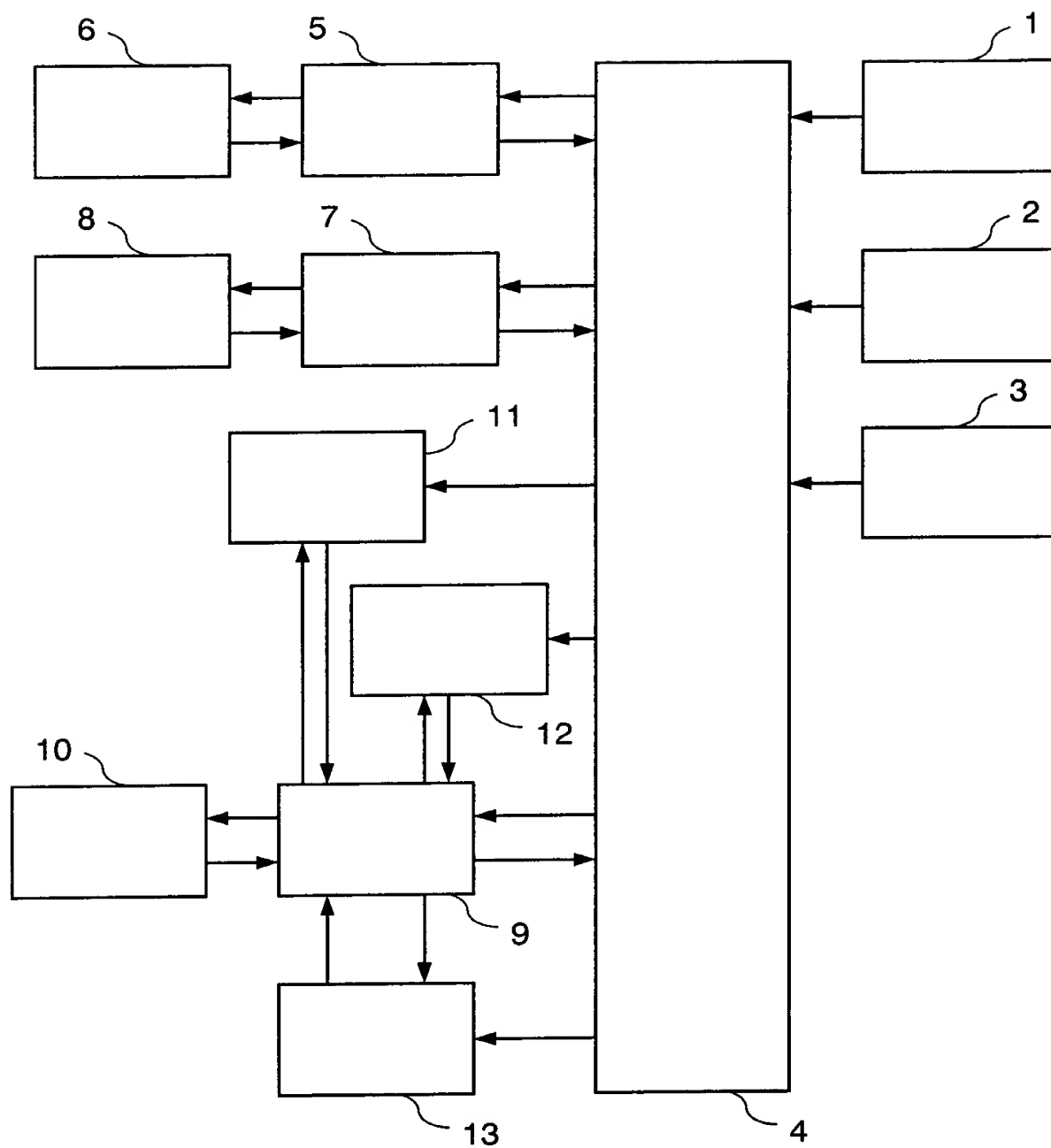


FIG. 1

Fig. 2A

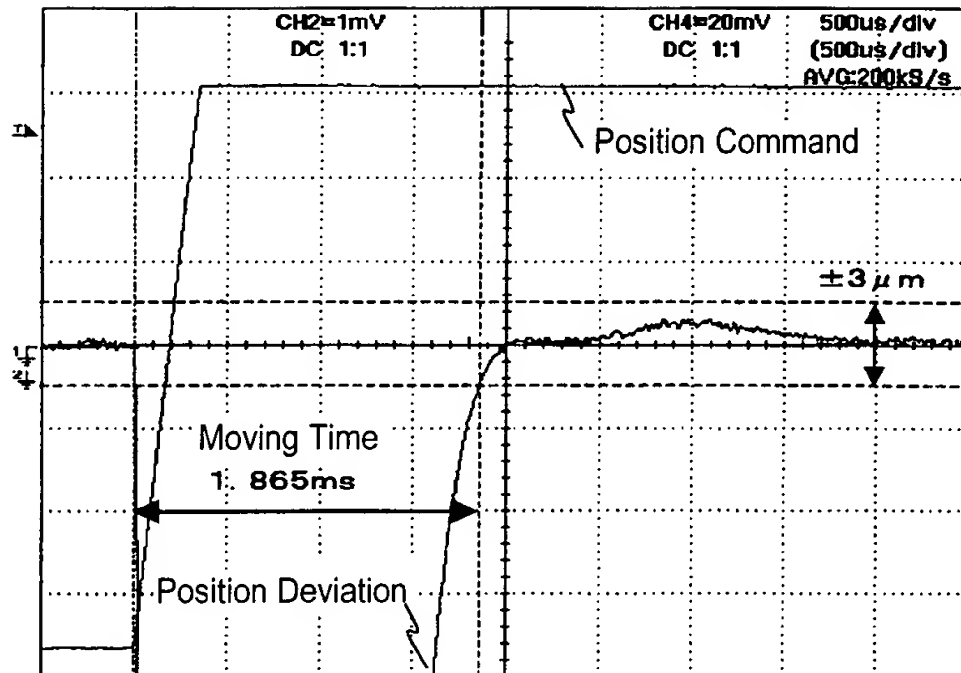


Fig. 2B

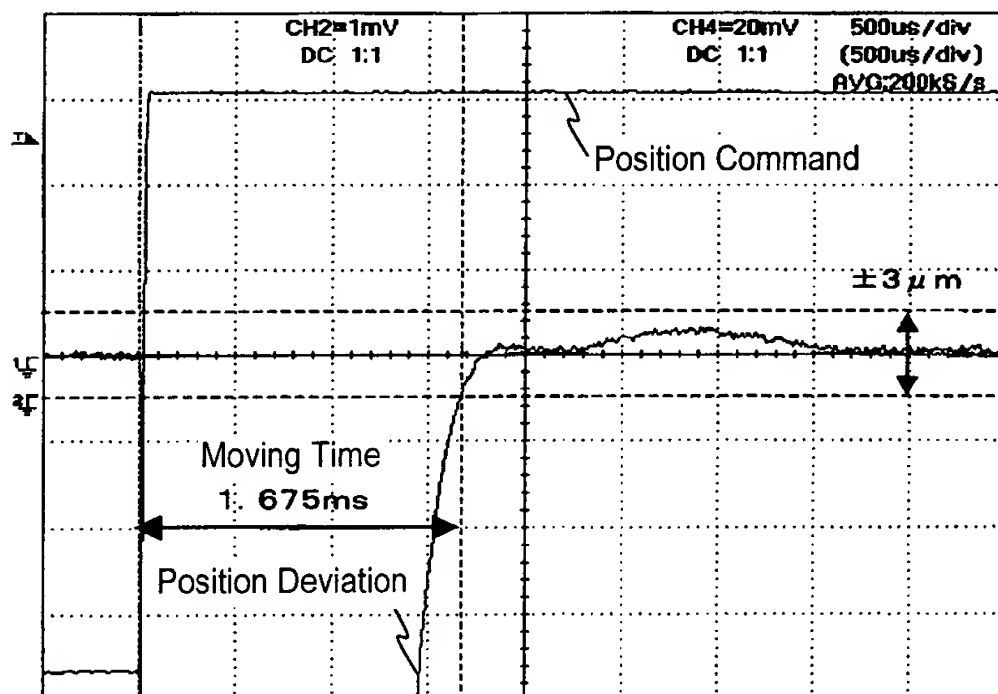


Fig. 3A

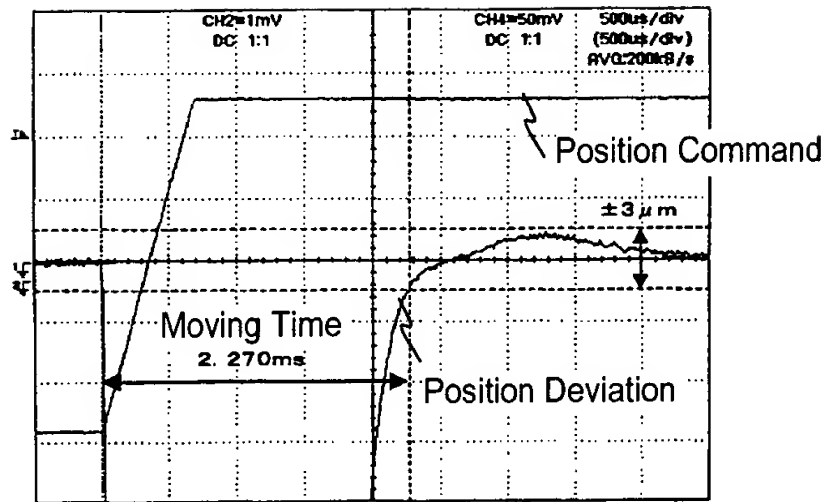


Fig. 3B

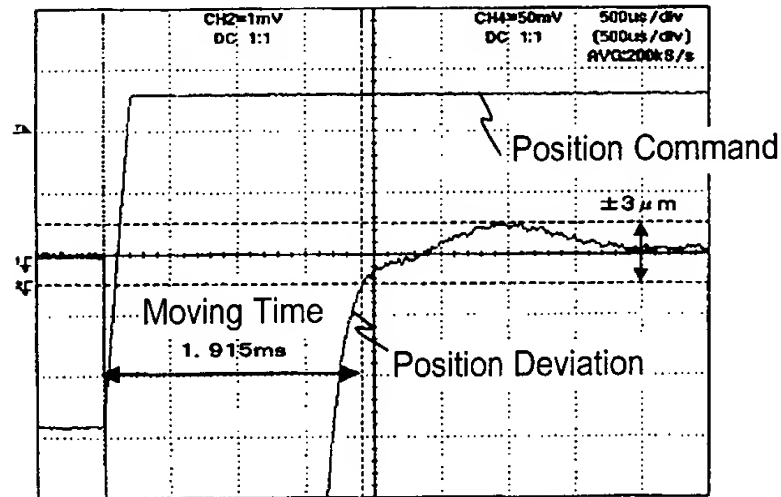


Fig. 3C

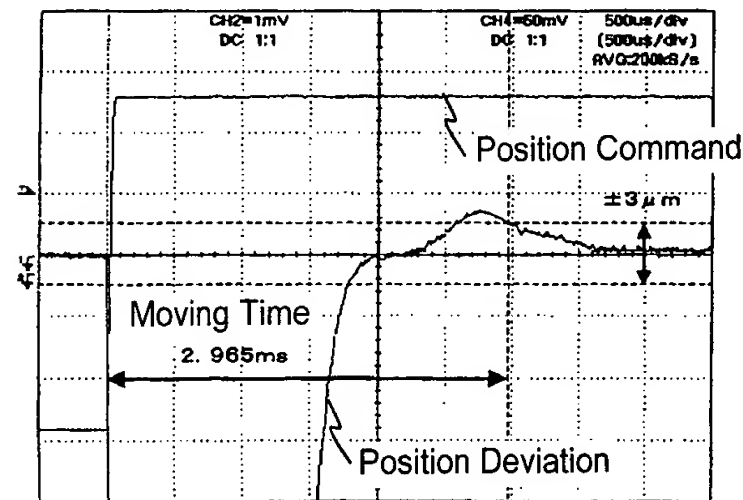
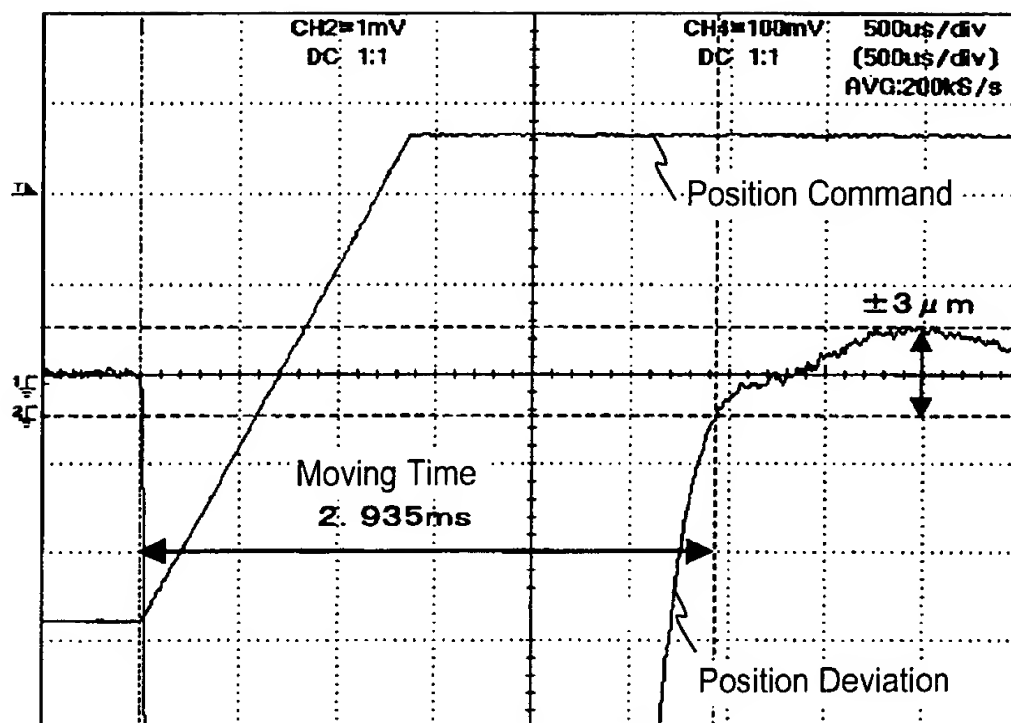


Fig. 4A



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Fig. 5A

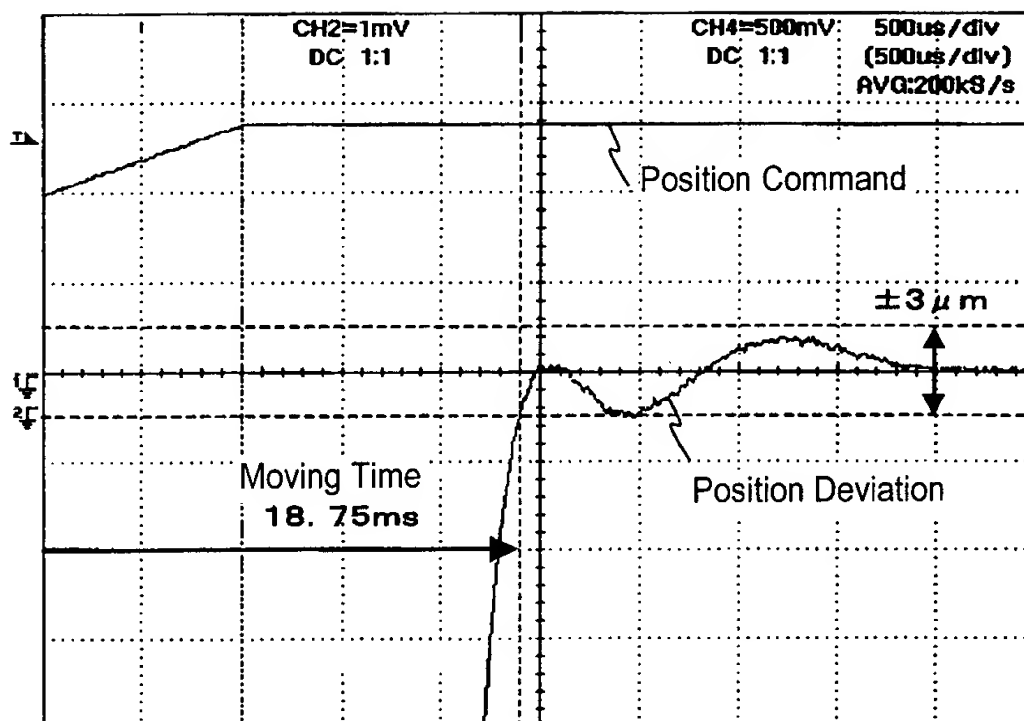


Fig. 5B

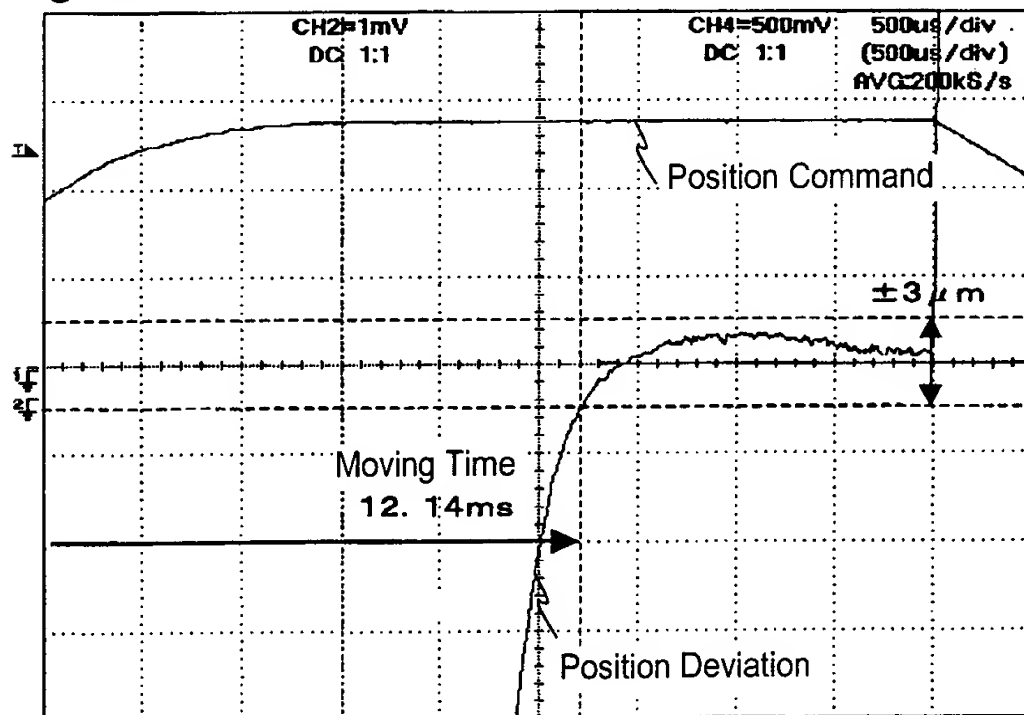


Fig. 6

| Moving Distance (mm) | Control Method |
|----------------------|--|
| 0.001 – 1.499 | Step Position Command Control Method |
| 1.500 – 4.999 | Step Speed Command Control Method |
| 5.000 – 50.000 | Trapezoid Speed Command Control Method |

Fig. 7

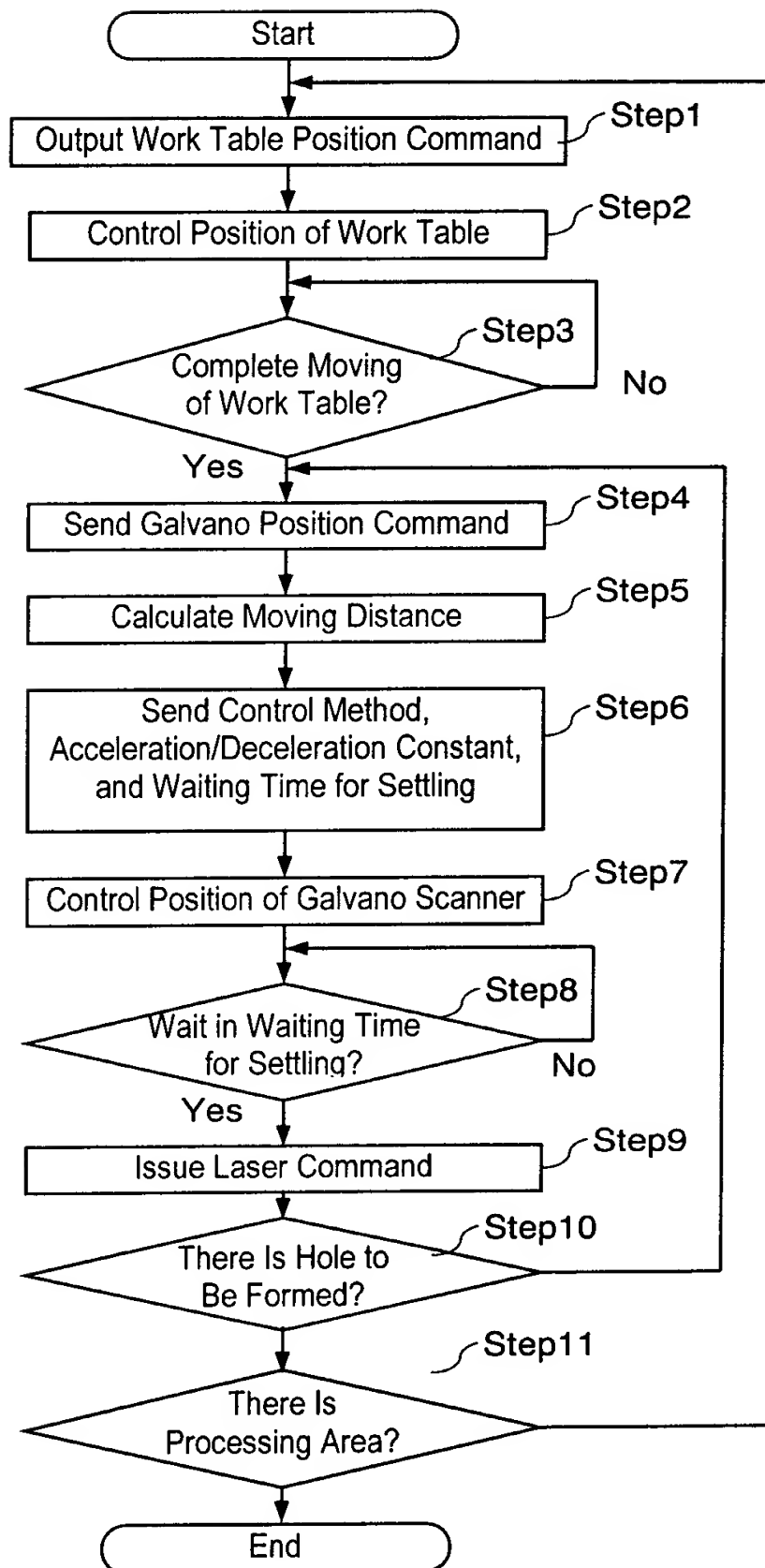
| Moving Distance (mm) | Value of Speed Command (mm/ms) |
|----------------------|--------------------------------|
| 1.500 – 2.999 | 10 |
| 3.000 – 4.999 | 2.9 |

Fig. 8

| Moving Distance (mm) | Waiting Time for Settling (ms) |
|----------------------|--------------------------------|
| 0.001 – 1.499 | 1.720 |
| 1.500 – 2.999 | 1.780 |
| 3.000 – 4.999 | 1.600 |
| 5.000 – 50.000 | 1.240 |

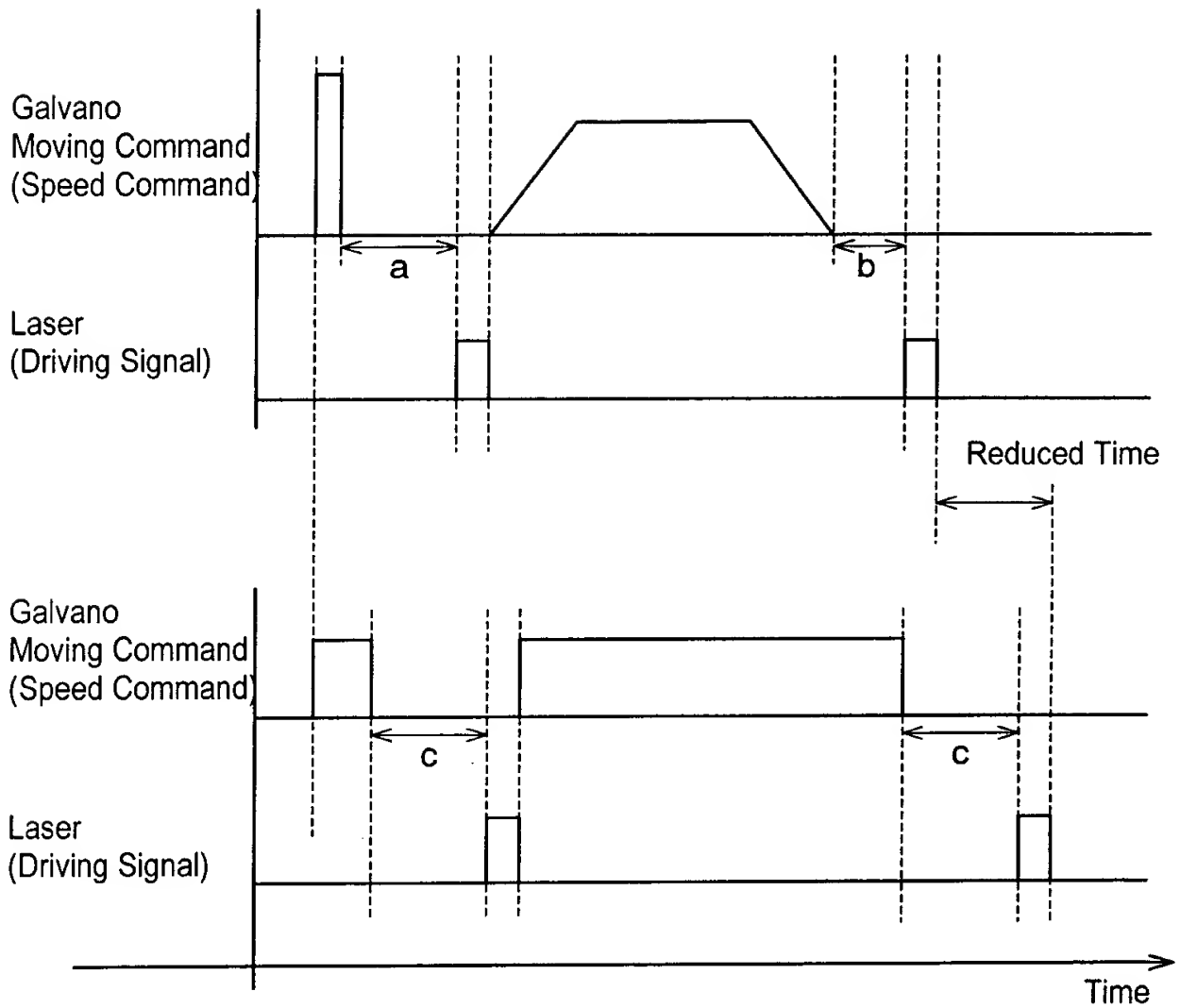
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Fig. 9



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Fig. 10



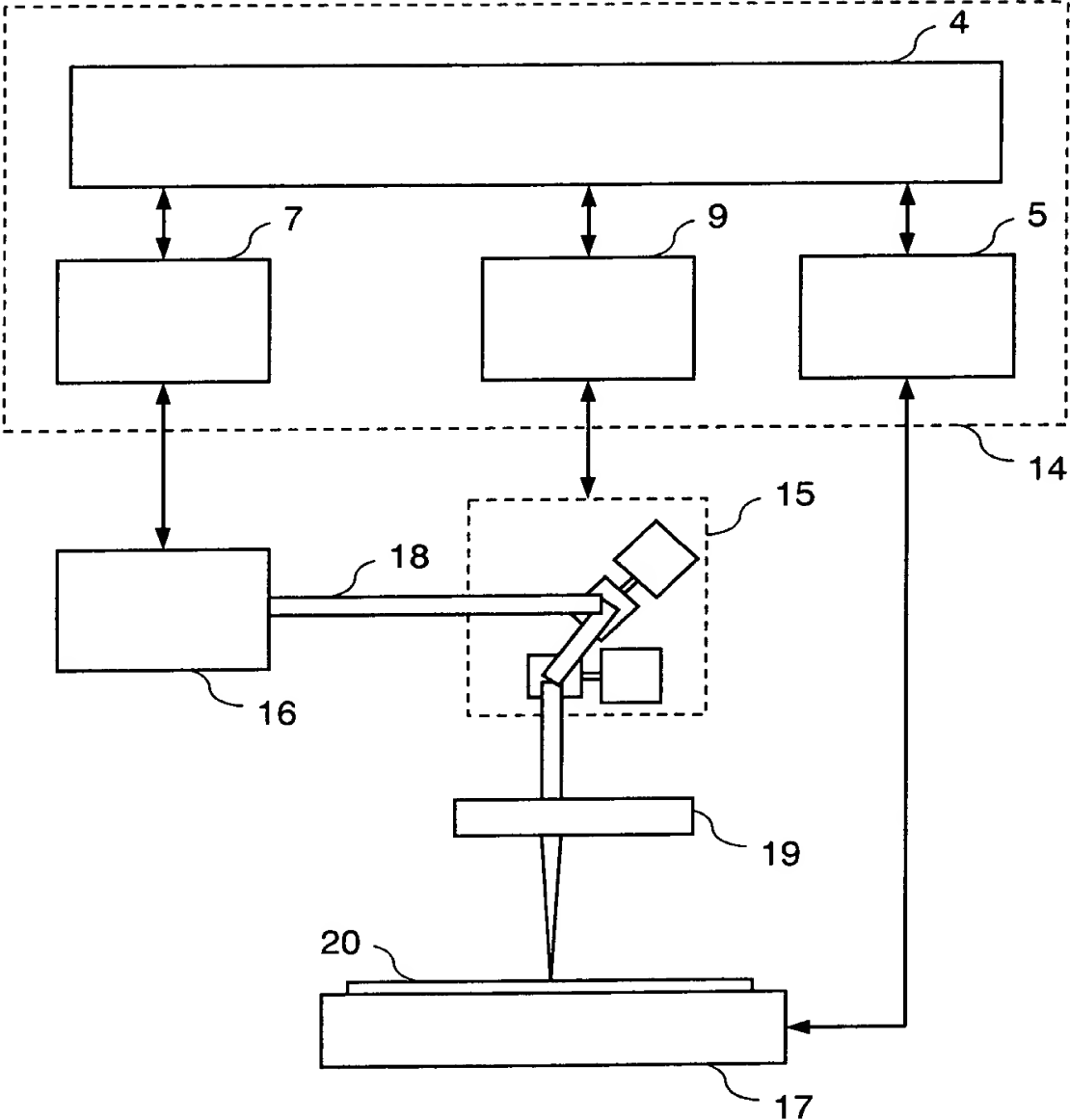
- a: Waiting Time for Settling Corresponding to Moving Distance of 2mm
According to Embodiment
- b: Waiting Time for Settling Corresponding to Moving Distance of 50mm
According to Embodiment
- c: Waiting Time for Settling in Conventional Processing Apparatus

Fig. 11

| Moving Distance (mm) | Moving Time According to Embodiment (ms) | Moving Time of Conventional Apparatus (ms) | Ratio of Speed (%) |
|-------------------------|--|--|--------------------|
| 1.000 | 1.720 | 1.945 | 113 |
| 2.000 | 1.980 | 2.290 | 116 |
| 4.000 | 2.980 | 2.980 | 100 |
| 50.000 | 12.180 | 18.840 | 155 |

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Fig. 12



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